SYSTEM OF COLLECTION AND DISTRIBUTION OF DATA

Field of the invention. The field of the invention is that of the collection and the distribution of the data-processing data, more particularly of the audio-visual data.

Former state of the art. The audio-visual data are diffused in the form of material supports readable in adapted readers, and in the form of files transmitted by the network internet.

The US patents 5 633 839 A (ALEXANDER GREGORY et al.) of 27 May 1997, US 5 949 688 A (FORKUM ALLAN et al.) of 07 September 1999, US 6 330 490 B1 (YANG JUN MO et al.) of December 11 2001, CA 2 225 190 (R2M DISTRIB Inc) of June 18, 1999, WO 01 52125 A (MARCONI TRADES SYSTEMS LTD) of 19 July 2001, and OBVIOUS ABSTRACTS OF JAPAN of October 31, 1998, describe means of distributing commercially data loaded to the request in a memory of disc type or electronics.

The means used are schematically represented by the single figure.

A material unit 1, having the characteristics of a slot-machine of the former art, contains a stock of virgin independant supports 2, for example optical discs CD/DVD with or without protective cartridgge, or diskettes, protected or not by electronic modules 3, a means of distribution 4 of these independent supports 2, and a means of payment 5 allowing it possible to obtain these independent loaded supports.

This material unit 1 also contains a means 6 of mass storage, for example hard disks, or optical discs.

The data stored on the means of mass storage 6 are loaded at the request of a means of choice 7 on the independent supports 2 by one or more means 8 of writing of these data, and a data processing means 9 determines the sum which must be provided by means of payment 5 to enter in possession of the independent support 2 loaded with the selected data.

Response of the invention to the posed problem. The individual hacking being a cultural phenomenon as much as financial, refusal of a system of distribution seen at the internet age like obsolete, totalitarian and too expensive, it is not very probable that it can be fought successfully by technical means always got round, or by a repressive legislation, freedomkiller and probably unworkable.

The invention introduces a new fundamental aspect into the distributions of the data: the possibility for the producers of these data, or for the labels representing them, quasi automatically to charge these data on the means of mass storage, at the price of the hiring of the volume of this means of mass storage occupied by these data loaded.

To allow this easy access of the producers to this means of diffusion, the means of mass storage is fed partly or entirely from independent supports of data read by a suitable reading device.

This reading device makes an analysis of these data, accepts them or not, and determines the price of hiring of the volume used of the said means of mass storage.

The invention cannot be opposed to the industrial hacking of data, but by improving considerably the relationship between supply and demand, it can satisfy legitimate waiting, as well of creators as of users, and put an end to a great part of this hacking.

SUMMARY OF THE INVENTION

According to the invention, the means of mass storage 6 of the former art is fed by data contained onto independent supports 10, for example optical discs or diskettes, introduced

into a reader 11 in connection with said means of mass storage 6, or by data located on a distant data storage 6a connected by a suitable connection 18.

Reader 11 of these independent supports containing the data to be loaded on the means of mass storage 6 transmits these data to a local 12 or distant 12a, automatic or human, means of analysis, which decides acceptance or refusal of the data, and determines the amount of the hiring of space used 13 into the means of mass storage 6.

BRIEF DESCRIPTION OF THE FIGURE

Single figure: diagrammatic material overall picture of an autonomous slot-machine 1 of the former art, with the additions of the invention.
The various connections between the elements are not represented.
They are the connections of the former art of the electronic complex devices, for example of a computer which in general includes some of the elements of the autonomous slot-machine. In the same way, former art describes a very great number of devices of displacement and availability of objects by slot-machines, as well as means of payment accepting coins and bank cards with code.

List items

1 and 1a - According to the invention - Automatic autonomous collector-distributor
2 and 2a - Former Art – Independent supports of data
3 - Former art – Safety electronic modules
4 – Former art - Means of availability of the independent supports 2
5 - Former art – Means of payment
6 and 6a - Former art - Means of mass storage
6b - Former art – Directory of the means of mass storage
7 – Former art – Means of choice of the data of the means of mass storage
7a - Former art - Means of visualization or listening of the selected data
7b - Former art - Means of manual selection of the selected data
8 – Former art - Means of writing of the selected data onto an independent support
9 Former art - Data processing means to determine the price to pay to obtain the independent support 2 loaded with the selected data
10 - According to the invention – Independent support containing the data to be written on the means of mass storage 6
11 - According to the invention - Reader of independent supports 10 containing the data to be written on the means of mass storage 6
11a - According to the invention - Memory to store temporaryly the data to be written on the means of mass torage 6
12 and 12a - According to the invention - Means of analysis of the data to be written on the means of mass storage 6
12b and 12c - According to the invention - Spectra of musical and lexical data to be compared
13 - According to the invention - Volume occupied by the data to be written on the means of mass storage 6
14 – Former art - Independent reader
15a and 15 B - According to the invention - Means of checking and writing of the independent data supports 2a provided by a customer
16 – According to the invention - Intermediate storage between the means of mass storage 6 and the means of writing 8 of the selected data
17 – Former art - Means of internal management of the autonomous slot-machine 1
18 – Former art - Means of connection between two or several autonomous slot-machines 1 and 1a
19 – Former art - Means of management of a group of autonomous slot-machines 1 and 1a
20 – Former art - Connection of the type " internet " or telephone, allowing the supply of the means of mass storage 6

21 – **Former art** – Technical room to group togother some means of one or several autonomous slot-machine
22 – **Former art** - Technical room grouping means of exanges with customers of the autonomous slot-machines 1 and 1a, whose other means are in the technical room 21

DESCRIPTION

The means of mass storage 6 of former art is fed, according to the invention, by the data contained on independent supports 10 being able to be read by a suitable reader 11.

These independent supports 10 can be diskettes, optical discs, hard disks, electronic memories or all other data supports.

This suitable reader 11 includes a means of provisional storage 11a in connection with a means of analysis local 12, or distant 12a, purely data-processing or with human component.

The data-processing component of the means of analysis 12 or 12a checks the nature of the data.

In the case of musical data, the means of analysis 12 or 12a carries out a spectrum 12b of musical notations, and a lexical analysis of the text possibly accompanying the music, per separated pieces, and compares this spectrum and this lexical analysis with the spectra and lexical analyses 12c contained in the means of mass storage and accompanying each unit of stored musical data.

If the data are not musical, or if the local means of analysis cannot provide an answer, they are either refused, or transferred to a human means.

The possible human component of the means of analysis 12 or 12a carries out an analysis " with the ear " of the musical data-processing data, a visual analysis of the data containing images, or a intellectual analysis of the purely data-processing data.

With the resulting one from this analysis, the data either are refused, or accepted, and in this case the means of analysis 12 or 12a fixes the price of the hiring of space 13 of the means of mass storage used.

According to the request accompanying the presentation of the data to be loaded on the means of mass storage, this loading can be done only on the only means of local mass storage 6, or on means of mass storage distant 6a, and the price of the hiring to be then calculated according to total space 13 and 13a used in various means 6 and 6a of mass storage.

The means of payment 5 of former art, or a means of payment dedicated 5a, authorize the loading of the data on the means of mass storage 6 or 6a that only after payment of the price of hiring determined by the means of analysis 12 or 12a.

The elements characteristic of the data loaded on the means of mass storage 6 and 6a are written on the catalogues 6b of these means of mass storage 6 and 6a.

According to the invention, a means 9 determines, in absolute value and expressed as a percentage, the royalty paid to the beneficiaries of the selected data-processing data.

The data loaded on the means of mass storage 6 or 6a can be directly accessible advertising data in auditive or visual form.

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CLAIMS

1) Système of collection and distribution of digital data

having at least:
a means of mass storage of digital data;
a means of choice of the digital data contained in the means of mass storage;
a means of extraction of the selected data of the said means of mass storage;
a means of listening or visualization of the selected data;
a means of loading of the selected data on independent data supports;
a means of calculation of the price to pay to obtain the loading of the data selected on the said independent data sopports;
a means of payment;

characterized in that it has one or more means making it possible to charge data on the said means of mass storage.

2) Système according to claim 1,

characterized in that an automatic means of the system, or a human means, analyzes the data introduced into the means of loading of the means of mass storage, accepts or not these data, and determines the price of hiring of the volume of the means of mass storage which will be occupied by these data.

3) Système according to claim 2,

characterized in that the means of analysis of the data determines and displays, in absolute value and expressed as a percentage, the sums which will be versed to the legal claimants of the selected digital data.

4) Système according to claim 1,

characterized in that a means of payment authorizes the loading of the data to charge on the means of mass storage only when the payment of the hiring of the volume which will be occupied is completed.

5) Système according to claim 1,

characterized in that a means of management of the means of mass storage registers the data in charge on this means of mass storage, on a catalogue describing the contents of the said means of mass storage.

6) Système according to claim 1,

characterized in that part of the data charged by the means of loading
on the means of mass storage, and directly accessible in auditive or visual form, are advertising data.

7) Système according to claim 2,

characterized in that the data of the musical type contained in the means of mass storage are accompanied by a spectrum of the musical notations and a lexical analysis, and in that the automatic means of analysis does, on the data waiting to be loaded in the means of mass storage, a musical spectrum and a lexical analysis which it compares with those existing in the said means of mass storage.